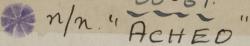


## Y.I. TYPE

PROFILEY DECKS
LITHGOWS 2"
180 957-8-9
-60-61.

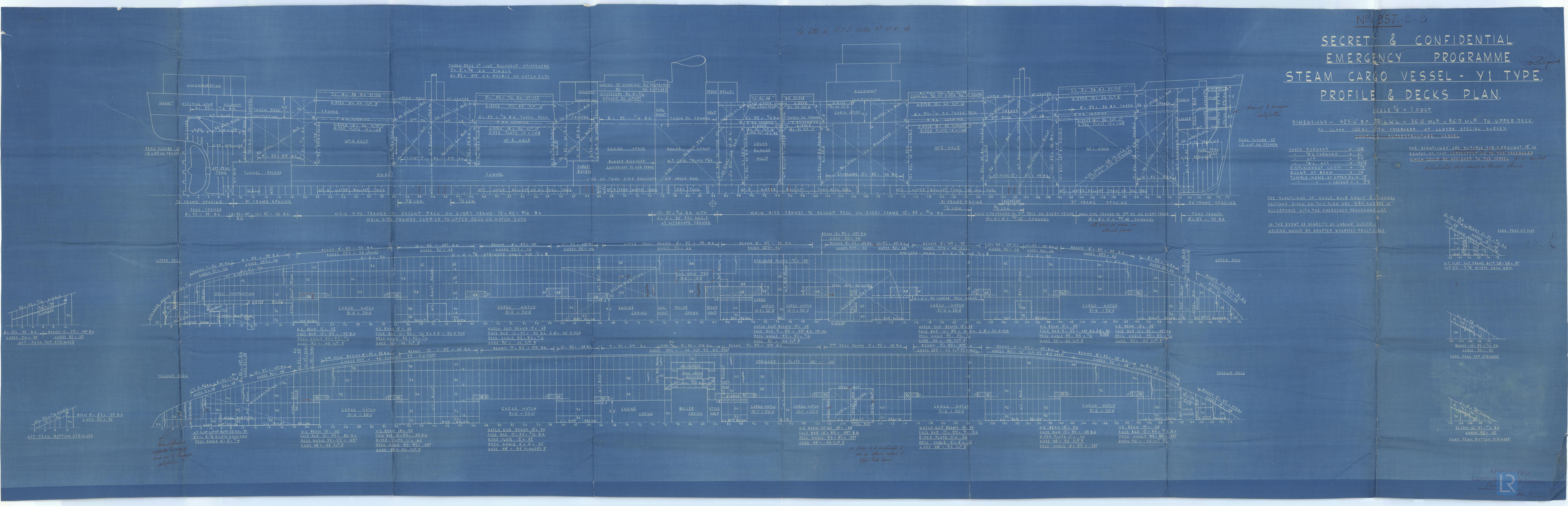
n/n. "ACHEO"



Yard	No. Name	First	Entry	Rpt.No.
957	"EMPIRE	RIDLEY"	21	638
958	"EMPIRE	BAFFIN"	215	587
959	"EMPIRE	HOWARD"	216	645
960	"EMPIRE	RANGER"	217	746
961	"EMPIRE	ZEAL"	217	69

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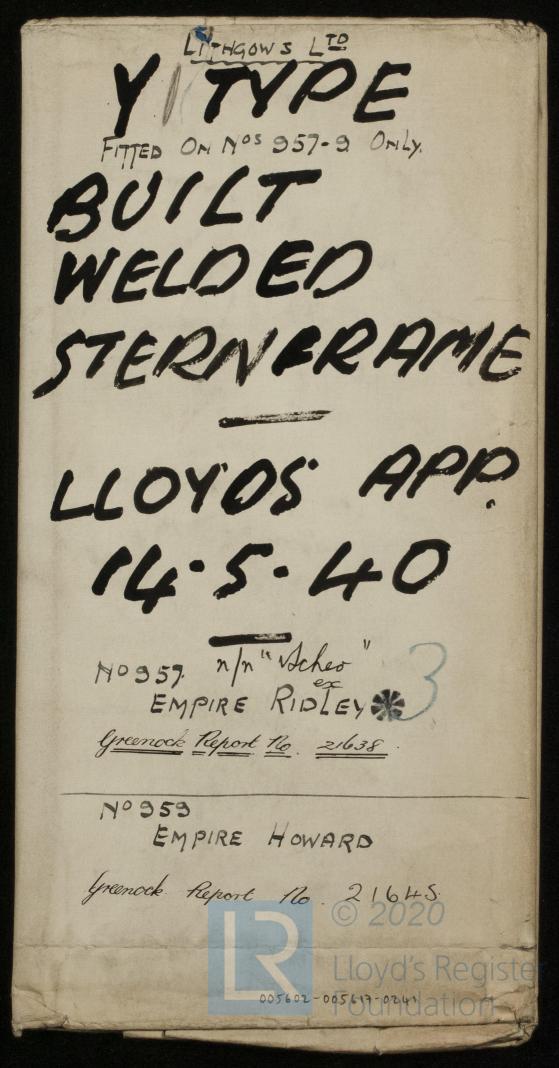
LITHGOWS LTD MOSSS YITYPE

EMPIRE HOWARD
MIDSHIP SECTION
AS BUILT

W241-0011

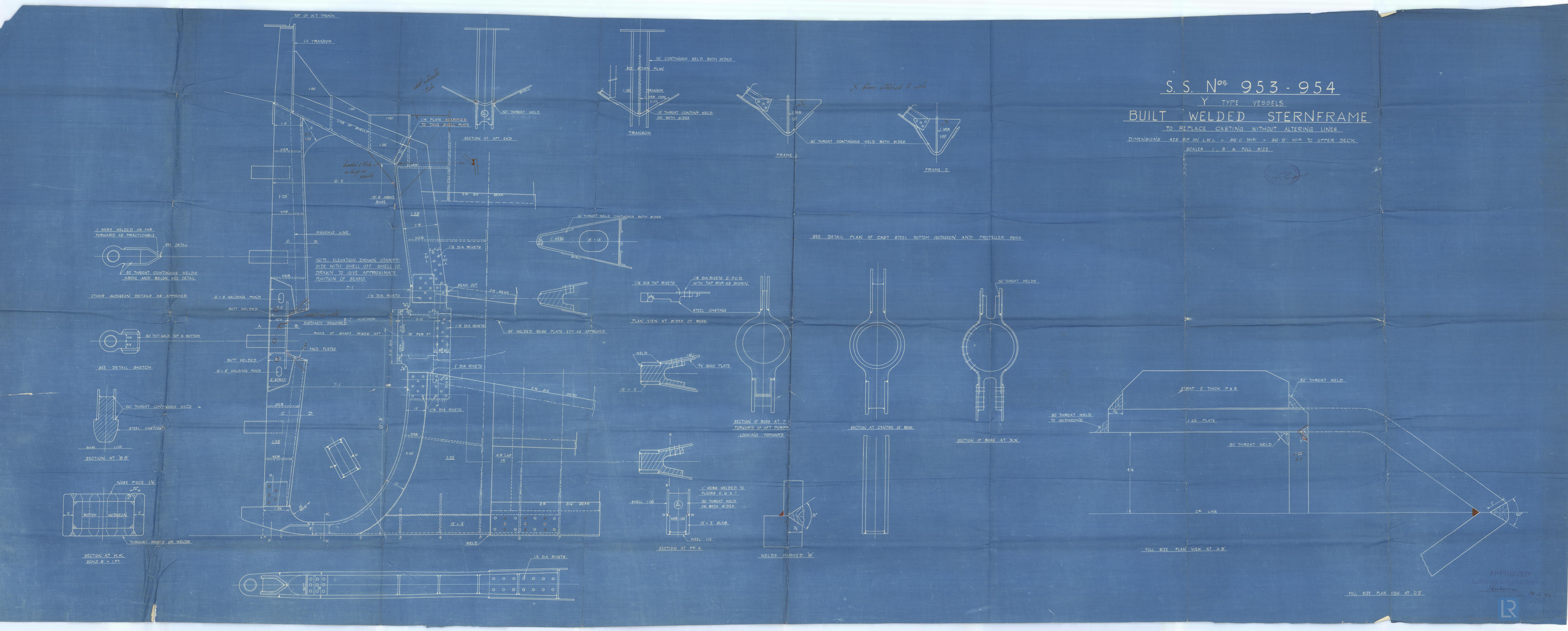


S.S. Nº 958. S.S EMPIRE BAFFIN! 959. SS EMPIRE HOWARD. SECRET & CONFIDENTIAL EMERGENCY PROGRAMME. THE SCANTLINGS ARE SUITABLE FOR A DEAUGHT 18" IN STEAM CARGO VESSEL Y.I TYPE. EXCESS OF THAT CONTEMPLATED BY THE RULES FOR A COMPLETE MIDSHIP SECTION. SCALE 1/2 = 1-0". STRINGER PLATE UPPER DECK PLATING INSIDE OPENINGS 40 TO CLASS 100 AI WITH FREEBOARD AT LLOYDS SPECIAL SURVEY. FOR 12 LEN TO 36"AT ENDS BUTTS LAPPED & ZE TO IR. '42" AT ENDS ABREAST 20-0 OPENINGS 36 AT ENDS. COAMING 36" AT CENTRE BUTTS LAPPED & 4 R TO 3 R AT ENDS (NOT EXC. 42 59" ABREAST 18'0" OPENINGS 30 AT SIDE STRINGER ANGLE G"XGX 5/8" FOR 1/2 LEN \$ DIMENSIONS: 425:0" B.P ON L.W.L X56:0 ME -56-3 EXT. X 27-9 ME TO 200 DK. 36-10 ME TO UPPER DK. BUTTS LAPPED & 3R. 2R TOIR AT ENDS .. T UPPER DECK. "L" IN. FIRST LONGITUDINAL NUMBER LXD = 425.0 x 35.75 UPPER DECK BEAMS ON EVERY FRAME 58" × 69" FOR /2 LEN \$ SECOND LONGITUDINAL NUMBER LY(BXD) = 425.0 x (56.0 + 35.75) = 38.993 75 1/D TO UPPER DECK = 425.0 + 36.83 HALF BERMS 8" X 3/2" X 35 B.A. N.B.S. 4R FOR & LEN & TO 3R AT ENDS. FOR REINFORCED HATCH END BEAMS AND BEAMS d = 27.75 - 3.7/4 - 3 FOR HIGHER BKT AT ENDS SEE PROFILE & DECK PLAN . FITTED ON ALTERNATE FRS. 2. R. LANDING 514" K"OUT. EQUIPMENT NUMBER SECOND LONGITUDINAL NUMBER = 425-0 x (56-0 + 36-75) = 39418-75 58 x 65 FOR & LEN \$ ABREAST OPENINGS . 35 INSIDE LINE OF MIDSHIP ACCOMMODATION & CASING = 72.25 x8.0 x /2 = 289.00 OPENINGS - 30 AT ENDS. TO 46 AT ENDS BUTTS LAPPED 8 72" × 40" FOR 12 LEN \$ 34" SALOON ACCOMMODATION = 30.0 × 8.0 × /2 = 120.00 BUTTS LAPPED & Z.R. TO I.R AT ENDS. 4R FOR /2 LEN \$ TO 3R AT END 9"B.A. COAMING \_\_\_\_\_\_ STRINGER PLATE TACK WELDED TO SHELL 2 BOWER ANCHORS 68 CWTS EACH STOCKLESS "J"IN. STREAM ANCHOR 19 CWTS EX-STOCK CLEAR OF STIFFES. SECOND DECK BERMS ON EVERY FRAME. PULE 270 FATHOMS 225 FATHOMS 25/16" STUD CHAIN CABLE 600 CWTS THROUGH BEAMS 12" X 3/2" X 45 B.A. N.B.S. 90 FATHOMS 13/16" STREAM CHAIN OR 5" FLEXIBLE STEEL WIRE G"XIZ" HALF BEAMS 9" x 3/2" 375 B.A. N.B.S. 120 FATHOMS 43/4" SPECIAL FLEXIBLE STEEL WIRE 6"x 24" 33/2" x 40" FLANGED 8/2" IN THE EVENT OF SCARCITY OF LABOUR BUTTS LAPPED & 3.R. FOR REINFORCED HATCH END BEAMS & BEAMS 2 HAWSERS SO FATHOMS & HEMP OF 23/4 FLEXIBLE STEEL WIRE G'XI ELECTRIC WELDING WOULD BE ADOPTED WHERE 8- 1/8 RIVETS EACH ARM AT ENDS SEE PROFILE & DECK PLAN . 2 WARPS 90 FATHOMS THEMP OR 2/2 FLEXIBLE STEEL WIRE G'X 12 FOR ! LEN FOR 36" x 42" FL 2 1/2" 8- % RIVETS EACH ARM. RIVETING NOTE FRAMES SPACED 31 APART 27 FORWARD % LEN FORWARD 24"IN FORE & AFT PEAKS EVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFT PEAK SPACED S DIAMS APART CRITICE. FOR SCANTLINGS OF STIFFRS MAIN SIDE FRAMES ABAFT & LEN FORWARD CLEAR OF TUNNEL RECESS & AFT PEAK TANK EVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM FORD HALF LENGTH FORD SPACED SIZ DIAMS (TWO COMPLETE ROWS) SEE PROFILE & DECK PLAN. 12"x31/2"x916" B.A. ON EVERY FRAME TO SECOND DECK WITH TWEEN DECK FRAMES H OUT. RIVETS IN FRAMES TO FLOORS AT FLAT OF MOUBLE BATTOM FORD HALF LENGTH FORD SPACED & DIAMS (TWO COMPLETE ROWS) G"X 3/2" X 7/6" B.A SCARPHED TO MAIN FRAMES AT SECOND DECK AND CARRIED TO 76 × 65 FOR /2 LEN \$ UPPER DECK ON EVERY FRAME. FRAMES IN BOILER ROOM 12" X 3/2" X 9/6" B.A. WITH 4" X 4" X 50" REVERSE BAR ON ALTERNATE FRE BUTTS LAPPED & 3.R. ENETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FORD SPACED TOIAS APART CR TO CR. FRAMES IN TWEEN DECK PERMANENT BUNKERS 8" x 3/2" 7/6" B.A. ENETS IN 3. P. BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 3/2 DIAMS HPART OR TOCK RIVETS IN 4R BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 4 DIAMS APART CR TOCK. FRAMES IN FORE & AFT PEAK TANKS 8" x 3 % x 35" B.A. TO UPPER DECK. ENETS IN SEAMS OF SHELL PLATING DECK PLATING AND INNER BOTTOM PLATING AS PER TABLE 40. MAIN SIDE FRAMES IN WAY OF TUNNEL RECESS 10" X 3/2" X 1/2 B.A. ON EVERY FRAME NETS IN BUTTS OF DECK PLATING INNER BOTTOM & MARGIN PLATING SPACED 4 DIAMS APART CR TO CR TO SECOND DECK WITH 6"x 31/2" x 7/6 B.A. TWEEN DECK FRAMES ENETS IN SEAMS & BUTTS OF BULKHEAD AND TUNNEL PLATING MARGIN ANGLES AND WEATHER DECK STRINGER MAIN SIDE FRAMES FOR ! LEN FOR ! CLEAR OF DEEP FRAMING IGLES AND BULKHEAD FRAME TO BULKHEAD SPACED 4/2 DIAMS APART CR TO CR. 15" x 4" x 4" x 42 CE" CHANNEL WITH 6" x 3 1/2" x 7/6" B.A. TWEEN DECK FRAMES IVETS IN FLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDER AND SHELL FLANGE MAIN SIDE FRAMES IN WAY OF DEEP FRAMING FOR- 10% ABAFT RULE POSITION OF WATERTIGHT BULKHEAD FRAME SPACED 5 DIAMS APART CR TO CR. COLLISION BULKHEAD (SEE PROFILE & DECK PLAN) 15 X 4 X 4 X 60 CHANNEL ENETS IN FRAMES TO FLOORS AFT HALF LENGTH FORD REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING 76/2 x 60 FOR /2 LEN \$ ON EVERY FRAME TO SECOND DK WITH 4 X4 X 50 REVERSE ON ALTERNATE RTICAL ANGLES TO FLOORS AND SIDE GIRDERS IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEADS) AND TO 46 AT ENDS FRAMES WITH TWN DK FES 8" × 3%" × 35" B.A. SCARPHED TO MAIN FRAMES DECK PLATING TO BEAMS ON EVERY FRAME SPACED 7 DIAMS APART OR TO CE. BUTTS LAPPED & 3.K. AT SECOND DECK & CARRIED TO UPPER DECK ON EVERY FRAME. MAIN FRAMES EXTENDED TO UPPER DECK IN WAY OF HATCH END BEAMS IVETS IN CENTRE GIEDER TOP ANGLES SPACED 5 DIAMS APART OR TO CR WATERTIGHT e R LANDING 51/4" FLOOR PLATES . 42" THROUGHOUT IN HOLDS & ENGINE SPACE .- 52"IN THE SCANTLINGS OF ANGLES, BULB ANGLE AND CHANNEL CENTRE GIRDER. BOILER SPACE, WATERTIGHT FLOORS 42+08 = 50 WITH STIFFRS 52 IN E.S. - 58 IN B.S. - BUTTS LAPPED & Z.R. SECTIONS GIVEN ON THIS PLAN ARE N B.S AND ARE IN ACCORDANCE 43/4" x . 54" FOR 1/2 LEN \$ . 46" AT ENDS 6"x 312 x 3750 A. SPACED 30 APART FOR OVERFLOW 34'3" ABOVE TANK TOP SEAMS LAPPED & R. GE"IN BOILER SPACE BUTTS LAPPED & 3.R. VERTICAL ANGLES 3/2 x 3/2 x 437 SINGLE 4 x 4 x /2 BS WING BRACKETS 44" 54" IN BS. F CLINKER. TANK TOP CENTRE STRAKE TO RULE 53 x 52 FOR & LEN \$ G"xG"x. 12 SINGLE UNDER ENGINE SPACE & THRUST ARGIN CONNECTION 6/2" x 6/2" X 625" TEE BAR 625" IN B.S. TO 44" AT ENDS - 52 IN ENGINE SPACE . 58 IN BOILER SPACE . WITH 18- 18 RIVETS EACH FLANGE & 42 GUSSET PLATE SEATING S"XG"X 9/16" UNDER BOILER BEAKERS. 76/2 x 65 FOR /2 LEN \$ STEM 10" x 2/2" STERNPOST 10/2 x 8", RUDDER POST 10/2 x 8". ON EVERY FRAME SO IN BS WITH 5-78 RIVETS TO 46" AT ENDS 52 IN ES SB IN BS BUTTS LAPPED & 3. R TO 2R AT ENDS. IN WAY OF DEEP FRAMING 6/2 X6/2 X 625" TEE BAR WITH BUTTS LAPPED & 3 R. STIFFES WELDED TO 18-7/8 KINETS EACH FLANGE & 42 GUSSET PLATE DOUBLE UNDER ENGINES. TRNK TOP. ON EVERY FRAME WITH 8-78" RIVETS EACH FLANGE (OR 5-78" RIVETS FORE AND AFT 4" x 4" x 56 B 5. AND G'X 3/2 X. 1/2 BACK BAR WITH 3- 78 RIVETS ON WING BKT 13-78 RIVETS - 19-78 RIVETS 2 84 TO INTERCOSTAL GIRDER. OF ENGINE & THEUST SEATING IN WAY OF DEEP FRAMING 3/2×3/2×7/16 2.R. LANDING 51/4" IN WAY OF HATCHES TANK TOP PLATING INCREASED . 08" IN LIEU OF CEILING. REVERSE FRAME 31/2 X 3/2 X 437 SINGLE 31/2 FL WHERE TIA RIVETS DOUBLE UNDER BOILER STOOLS IN ENGINE SPACE & THRUST SEAT TO SEYOND 36 ENES 7 & REVERSE FRAMESOON 6" x 3/2" x 7/6" B A 1000 N B S 7/6" IN BS. 1000 0 6-3/4" RIVETS 81/2 x 63" FOR /2 LEN \$ G"X 3/2" X 716 B.A. INTCL PLATE 38 IN HO TO SO AT ENDS 42" IN E.S - 52 N B.S. BUTTS LAPPED & 4.2 TO 3.2. 4-3/4 RINETS. 3/2 × 3/2 × 437 MARGIN SHELL ANGLE 100 6-3/4" RIVETS. 52" B.S.O 4" x 4" X 50" FORE 8 AFT. BOTTOM OF FRAMES G"X 3/2 O TOOM X 7/6 BA O N.B.S. TOOM OF STOM / FRAME 31/2" X 3/2" X 3/2" SINGLE SINGLE 16 LAP ON FLOOR TO SUIT ENE BILGE KEEL 12" X 50 BULB PLATE KEEL ANGLES 4"X4" NO FOR LEN \$ TO SO AT ENDS. & TO SURVEYORS SATISFACTION WELDED TO SHELL FOR ABOUT 10-0 AMIDSHIPS. AIN. B OUT. KEEL OUT. C CLINKER. OLID FLOORS ON EVERY FRAME IN ENGINE SPACE AND MARGIN PLATE TO RULE 39 FITTED FOR 3/5 LENGTH FOR UNDER BOILER BEARERS & BULKHEADS ABOUT 44" x . 54" - . 60 IN B.5. SE X 78 FOR 3/5 LEN & TO 78 × 60 FOR /2 LEN \$ 72" x 65" FOR 12 LEN \$ PARTIAL SOLID UNDER THRUST ELSEWHERE SOLID FLOORS ON BUTTS LAPPED & 3 K THROUGHOUT. 68 AT ENDS BUTTS LAPPED EVERY THIRD FRAME BRACKET FLOORS INTERMEDIATE. BUTTS LAPPED 848 TO 38. BUTTS LAPPED 8 48 TO 38. BUTTS LAPPED 8 48 TO 38. 8 4 R TO 3.R AT ENDS I RIVETS IN BUTTS OVER 72" THICKNESS OF BOTTOM SHELL PLATING FROM FORWARD HALF LENGTH FORWARD



10.0

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## 150969.76.1-278-9.80-1-2-90 Yard First Entry Rpt. No. 957 "EMPIRE RIDLEY" 21638 1958 "EMPIRE BAFFIN" 21587 959 "EMPIRE HOWARD" 21645 960 "EMPIRE RANGER" 21746 "EMPIRE ZEAL" 961 21769 962 "EMPIRE SPARTAN" 21797 "EMPIRE 963 CONRAD" 21846 "EMPIRE PRAIRIE" 21702 964 965 "EMPIRE ADDISON" 21770 Name. First Entry Rpt. No. ward No. "EMPIRE AUSTEN" 21837 969 "EMPIRE GALAHAD" 21915 970 "EMPIRE LANCER" 22086 971 PENNANT 22115 "EMPIRE 972 973 22190 "CAPE HOWE" 976 "EMPIRE TREASURE" 22243 977 BEATRICE" 22284 PEMPIRE 978 BUCKLER" "EMPIRE -21969 979 PIBROCH" 22047 PEMPIRE 980 "EMPIRE FALSTAPE" 22342 981 "EMPIRE SERVICE" 22374 982 22357. "EMPIRE FLORIZEL" 990

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